

# CSO Alliance Maritime Cyber Security Through Community

**CONNECT: INFORM: TALK: ACT** 

integrated, secure, self-service, analytical, multimedia, multichannel, multidevice

#### **Crime Fighting – Reality**





NCA Strategic Cyber Industry Group

Cyber Crime Assessment 2016

Need for a stronger law enforcement and business partnership to fight cyber crime

7 July 2016

Commuters must be the 'eyes and ears' in fight against terror, police warn in new 'See IT. Say It. Sorted' campaign





#### **PEEL: Police efficiency**

An inspection of the Police Service of Northern Ireland 1–5 February 2016

Cyber Crime cannot be dealt with by Governments alone

The Public must become involved

Greater need to engage with the public to prevent harm

# **Crime Fighting Solutions within Community**



#### Crime Fighting Challenges drive a need for

- increased awareness by 'targets'
- improved incident reporting by 'targets'
- greater vigilance by 'targets'
- faster notification of 'targets'
- stronger collaboration with partners and targets

# possible

### Ultimately

 greater automation to combat crime is undoubtedly necessary

A first Step: CSO Alliance



# **CSO Alliance – Security Through Community**



#### **BUILT BY CSOs FOR CSOs**

#### **TAKING HUMAN INTERACTIONS ONLINE**



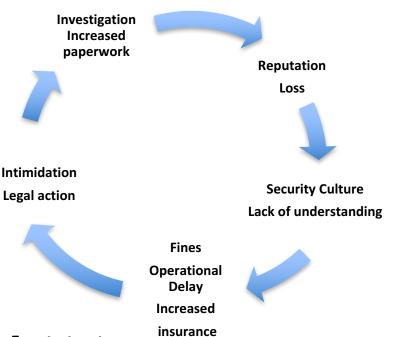
400 CSOs in 40 Countries
20 workshops throughout the world
One day saved equivalent to 20 years membership

#### **Overcome Disincentives to Report Crime**



#### Working to break the established cycle:

You did not do your job – Concerns over:





Few to trust

Limited military, National Government, NGO feedback/support

#### **We Track Maritime Criminal Activity**



We track and verify all crime - from Jan 2013 to this pm

10% more verified crime than Industry approved sources

Maritime criminals active in 63 countries

1636 incidents reported, 969 ships successfully boarded 60% boarding success rate affecting est. 16,000 seafarers

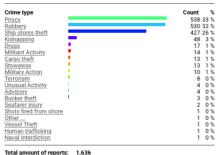
Industry has greatly improved reporting crime IMB: 30% of crime is not reported, higher in W Africa

#### Maritime criminals are:

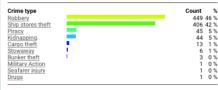
Global
Well organised and rewarded
Constantly innovating







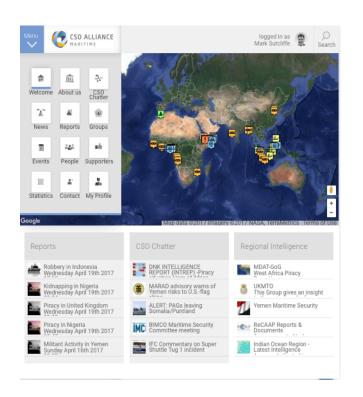




Total amount of successful boardings: 969

## A Proven Platform - Maritime Homepage





Very Easy to use

Get fast relevant and actionable information.

Access shared experience

In complete confidence

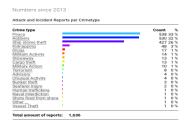
#### **Key Functionality**



#### Verification & geolocation of all crime



#### Which Drives Statistics



Attack and Incident Reports per Crimetype (successful boarding)				
Crime type	Count			
Robbery	449			
Ship stores theft	406			
Piracy	45			

Total amount of successful boardings: 969

#### Generates detailed report



#### Time of crime / incident

Report 2601 number

UTC time April 22nd 2017 14:42 Local time April 22nd 2017 17:42 (UTC +3)

#### Location of crime / incident

Somalia

GPS location GPS 5.7, 48.883331 (N 5° 42' 0" E 48° 52' 59.9916")

Incident On board location

Useful notes Reported by UKMTO/IMB. Incident occurred around 6nm off Somali coast.

#### Vessel (where the crime / incident occurred)

Vessel Asilah IMO-8405701 IMO number IM08405701

Chemical / Oil Products Tanker Vessel status Underway

#### Crime type

Crime type Piracy Contact level Attack Number of offenders Number of vessels

Six armed persons in a skiff chased and fired upon a tanker Useful notes underway. Master raised the alarm and sent distress message, to which a warship responded. The skiff chased the tanker for

#### Chatter – on any subject

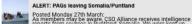
CSO Chatter overview

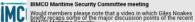


DNK INTELLIGENCE REPORT (INTREP) -Piracy situation









#### **Key Functionality**



Maritime News & Views

#### Secure online conference facility



#### Powerful search engine



#### Security news



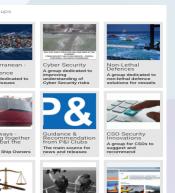
#### Direct Access to Military & regional reporting centres





Partnering with leading law firms to fully understand the

risk and compliance



Sharing ideas and

support and refine the

Content quality and community growth

is there a way we can make the website

# **Fusion of Multiple Data & Information Feeds**





#### **Industry Support is in Place**



**Champions** Industry BIMCO

P&I North P&I

Flag Marshall Islands Register

Class Confirm 28/4

Hull Norwegian Hull Club

#### Access and contact with 60 Industry bodies

Flag States	P&I Clubs	Classifaction Society	Industry	Military & NGO Reporting
Panana	Swedish Club	American Bureau of Shipping	ВІМСО	EUNAVFOR
Marshal Island	North P&I	Bureau Veritas	International Chamber of Shipping	NATO
Liberia	UK P&I	China Classifaction Sociaety	Intertanko (Tanker Owners)	ИКМТО
Homg Kong	Skuld	Croatian Register of Shipping	Intercargo (Dry Cargo)	CMF
Singapore	Steamship Mutual	DNVGL	OCIMF (Oil Majors)	MDAT-GoG
Malta	Gard	Indian Register	Nautical Institute	ReCAAP
Bahamas	London P&I	Korean Register	IMO	IMB
Greece	West of England	Lloyds Register	IPTA	MARLO
China	Ship Owners	NKK (Class NK)	InterManager	US Coast Guard
Cyprus	American	Polish Register	CLIA	Interpol
	The Standard	RINA	IG P&I	Int Fusion Centre, Singapore
	Japan P&I	Russian Maritime Register	World Shipping Council	
	Britannia		Nautilus	
Bahamas Greece China Cyprus	London P&I West of England Ship Owners American The Standard Japan P&I	Korean Register  Lloyds Register  NKK (Class NK)  Polish Register  RINA	IMO IPTA InterManager CLIA IG P&I World Shipping Council	IMB MARLO US Coast Guard Interpol

#### **Cyber - What are the Problems?**



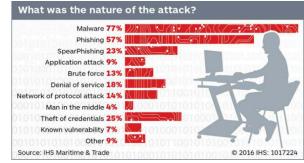
Ignorance

A lack of intelligence sharing

No trusted central repository of Information

A threat of mandatory regulation





#### **Cyber - Issues that Need Management**



#### A CISO role and responsibility

Computer Emergency/Security Response Team
Disaster Recovery and Business Recovery
Identity and Access Management
Privacy
Regulatory Compliance
Risk Management
Security Operations Centre
Technology Controls
Information Technology Investigations, Digital Forensics, eDiscovery
Security Architecture

Source: 2015 Harvey Nash study of 156 UK CISO av. base salary £130,823

#### Ship Owners need this delivery and need to dedicate funds

#### **Cyber - Industry Wide Requirement**



#### Requirement

Global consolidated cyber crime reports

Collect useful data needs a structured report

Only then identify trends and patterns

Share experiences best/poor practice

#### Solution

**Build Cyber Crime Reporting Portal** 

Submit New Report				
Time of crime / incident				
Date Time Timezone	DD-MM-YY 00:0( Local time • UTC time			
Location of crime / incident				
Country GPS location Incident location Useful notes	United Kingdom   On board On shore			
Vessel (where the crime / incident occurred)				
Vessel involved Useful notes	□Yes, a specific vessel was involved			
Crime type				
Crime type Contact level Number of offenders Number of vessels Useful notes	1			
Violence and weapons				
Violence level Useful notes	÷)			
Cargo / vessel impact (in US dollars)				
Bunkers theft Cargo theft Medicines				

#### Cyber - Benefits of Working as One



Keep reporting voluntary or risk regulation

Create actuarial data & remove clause 380

Keep Cyber Crime data "off market"

Share breaking data with cyber responsible employees

Support Flag & some states cyber reporting

If we don't ...... Cyber criminals will thrive on our dis-organisation

#### Cyber - Knowledge is Needed by All



**Crew** – Be cyber aware posters and awareness campaign

Office – e-learning, e-audits and education

Management – ensure full understanding

**Board & shareholders** – a risk that can cripple a company

The Drivers

Ignorance is no longer a defense
Effective security delivers client confidence
Can deliver competitive advantage
The threat is innovating and scalable
Malware infection acceleration Geometric
Infection into all parts of supply chain

EUNAVFOR has provided CSO Alliance with a situation report for the incident. Please note that it is not be distributed but is for member use only. This is the first time EUNAVFOR has shared a story board with CSO Alliance and illustrates how seriously they take liaison with the merchant marine on issues such as this. You can view the report by clicking here.

Please see three images below of the voyage and first location courtesy of Maritrace and several satellite images courtesy of Airbus Defence and Space 7.30 am 16 March.





### **Cyber - Complete Maritime Supply Chain**



#### To succeed - we need to work as one

Ship Owners CTO, CISO, Cyber Responsible

Ports CTO, Cyber Responsible, PFSO

Supply Chain Agents, Hauliers, Manufacturers

Flag States Duty to report to IMO

Industry BIMCO, ICS, IG Group, IACS etc

#### **Cyber Crime Reporting Portal**



#### WWW & Core System Ready for July

To secure a data flow anonymity of crime reporting needs to be assured

- Gloucestershire Police 'Safer Cyber Forum'
- Iceland Based Server Assures anonymity for all
- 3. Develop a cyber alliance 'ecosystem'
- 4. Industrial Partner 600 FTE cyber staff









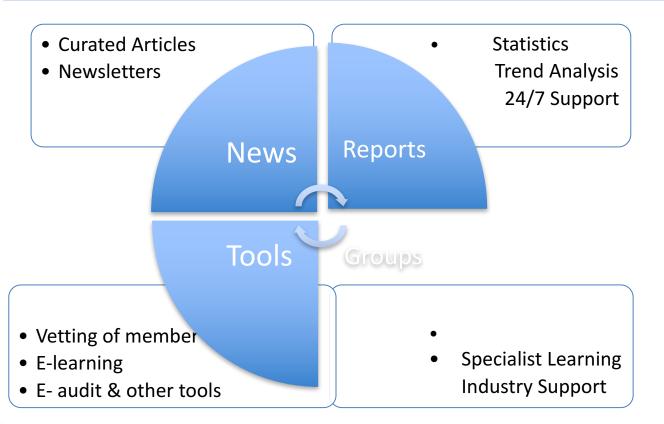
Visit us at GBS2017 17th and 18th May 2017, Cheltenham Racecourse



Register Register for your free Gloucestershire Safer Cyber Forum account

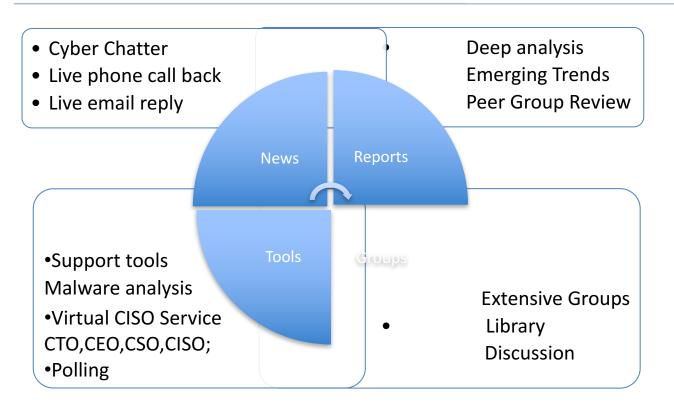
#### Phase 1: WWW & Core Service





#### Phase 2: Evolve a Premium Service





There is a job to be done - Protecting information assets and technologies

#### **Next Steps**



Join us now This is your platform and help the build

Liaise with AMMITEC

**IMO** engaged

End July Cyber Crime Reporting portal ready

www and core service soft launch

Mid September Athens - CTO Workshop initial feedback

create 'your' Premium service

If your CSOs join by July, year 1 Cyber core solution for no charge

#### On line Demonstration



#### **A Focus on Reports**

